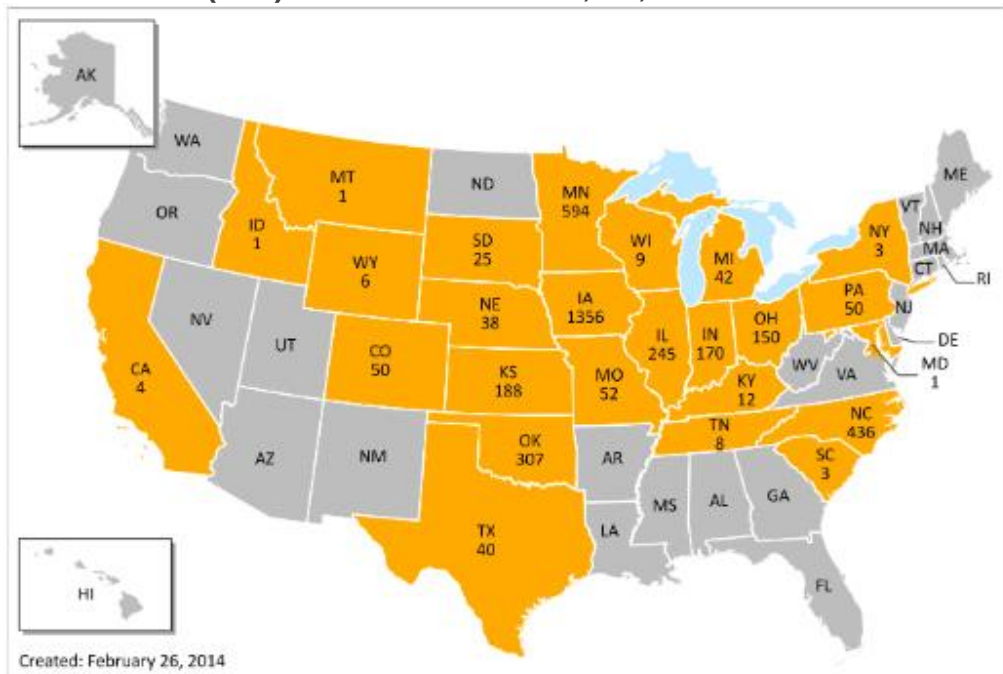


PED Update in US: 310 Farms Positive for PED Virus

28 February 2014

US - The total number of farms that have tested positive for the Porcine Epidemic Diarrhoea (PED) virus now stands at 3,856, writes Jackie Linden.



US states with PEDv-positive swine accessions

Pig Farms Testing Positive for PEDv: 3,856

The total number of pig farm samples (termed 'laboratory biological accessions' in the official report) that have tested positive for the PED virus (PEDv) since April 2013 now stands at 3,856, which is 304 more than the previous week.

For the current month to date, 2,603 farms have been tested, of which 905 or 35 per cent tested positive for the PEDv.

Since testing was fully reported in November 2013, 8,732 farms have been tested, of which 33 per cent have tested positive for the PED virus.

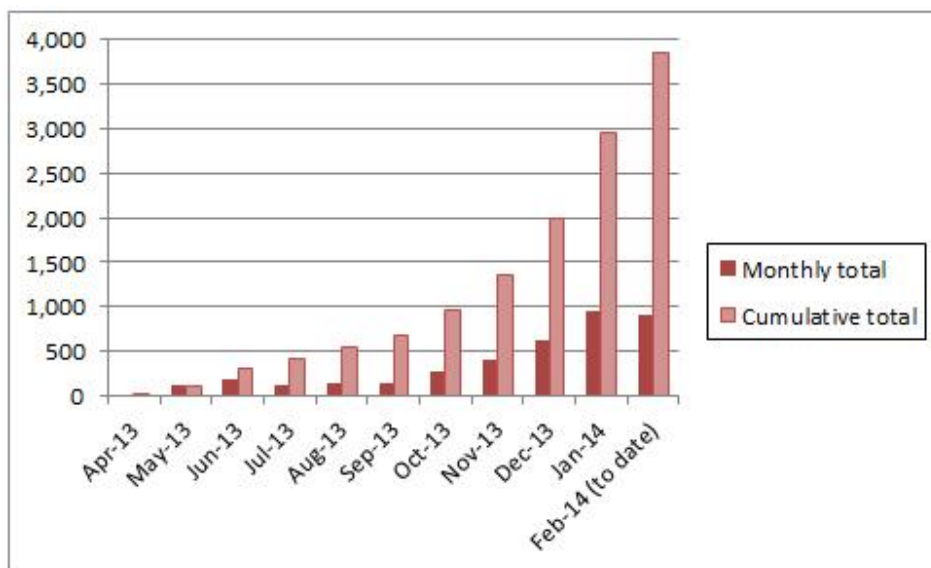


Figure 1. Number of swine farms positive for PEDv (since April 2013; data from NAHLN)

Results by age class

Suckling pigs

For the current month to date, 345 farms have been tested, of which 170 were positive for PEDv.

Since testing was fully reported in November 2013, 1,101 farms have been tested, of which 776 tested positive for PEDv.

Nursery pigs

For the current month to date, 446 farms have been tested, of which 183 were positive for PEDv.

Since testing was fully reported in November 2013, 1,555 farms have been tested, of which 761 tested positive for PEDv.

Grower/finisher pigs

For the current month to date, 434 farms have been tested, of which 117 were positive for PEDv.

Since testing was fully reported in November 2013, 1,786 farms have been tested, of which 913 tested positive for PEDv.

Sows and boars

For the current month to date, 184 farms have been tested, of which 82 tested positive for PEDv.

Since testing was fully reported in November 2013, 566 farms have been tested, of which 375 tested positive for PEDv.

Unknown age class

For the current month to date, 1,268 farms have been tested, of which 383 tested positive for PEDv.

Since testing was fully reported in November 2013, 3,966 farms have been tested, of which 1,113 tested positive for PEDv.

Results by state

No new states have reported a first positive test results since the previous report so the total number of states affected by PEDv remains at 25.

Those states with 30 or more positive tests are: Iowa, 1,356; Minnesota, 594; North Carolina, 436; Oklahoma, 307; Illinois, 245; Kansas, 188; Indiana, 170; Ohio, 150; Missouri, 52; Colorado and Pennsylvania, 50; Texas, 40; Michigan, 42 and Nebraska, 38. For the most recent week (week of 9 February), Iowa once again leads the 'league table' in the number of new positive results, accounting for 85 of the total of 310 new cases, followed by Minnesota (60), Illinois (33), Indiana (26), North Carolina (23) and Ohio (21).

Individual Pigs Testing Positive for PEDv: 12,721

The total number of individual swine samples (termed 'biological samples' in the official report) since testing began in June 2013 now stands at 12,721, which is 999 more than the previous report.

For the current month to date, 11,001 samples were tested, of which 3,169 or 29 per cent tested positive for PEDv.

Since testing was fully reported in November 2013, 35,362 farms have been tested, of which 27 per cent tested positive for PEDv.

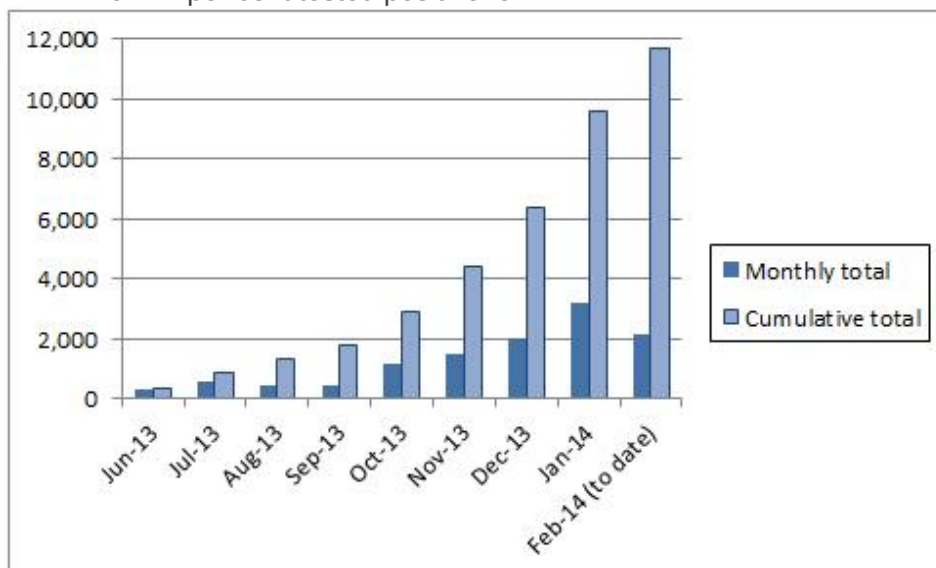


Figure 2. Number of pig samples positive for PEDv (since June 2013; data from NAHLN)

Environmental Samples Testing Positive for PEDv: 2,612

The total number of environmental samples testing positive since testing began in June 2013 now stands at 2,612, which is 187 more than the previous report.

For the current month to date, 2,597 samples were tested, of which 623 or 24 per cent tested positive for PEDv.

Since testing was fully reported in November 2013, 8,344 farms have been tested, of which 24 per cent tested positive.

States with positive environmental samples in the latest week (16 February; positive/number of samples tested) are Colorado (1/10), Iowa (56/141), Illinois (3/17),

Kansas (21/112), Minnesota (32/109), North Carolina (9/59), Ohio (18/54), Oklahoma (38/88), Wisconsin (1/8) and unknown (6/26).

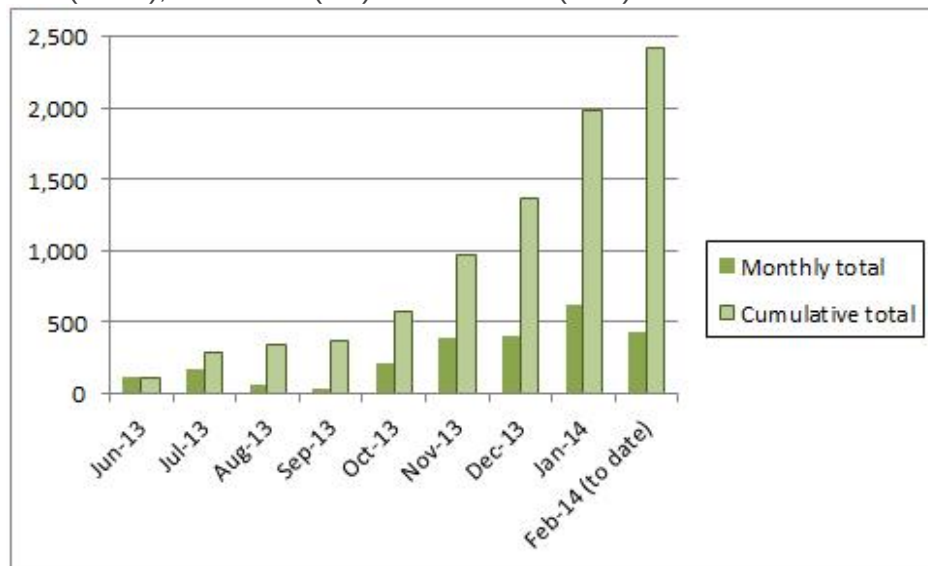


Figure 3. Number of environmental samples positive for PEDv (since June 2013; data from NAHLN)

Notes on the report

These data are collated by USDA APHIS VS NVSL National Animal Health Laboratory Network (NAHLN) and cited by the American Association of Swine Veterinarians (AASV) in a report dated 26 February 2014.

Veterinary diagnostic laboratories that have voluntarily reported PEDv testing data to NAHLN include:

University of Georgia–Athens, University of Illinois, Iowa State University, Kansas State University, University of Minnesota, Nebraska Veterinary Diagnostic Center, Ohio Department of Agriculture, Purdue University, Michigan State University - Diagnostic Center for Population and Animal Health and South Dakota State University. This data does not include testing conducted at private diagnostic laboratories, at the NVSL, or for research purposes.

Data summaries provided in this report reflect the most current and complete data available at the time the report was prepared, and summaries in this report may differ from those provided in past reports.

Monitoring of PEDv testing started the week of 16 April 2013; April monthly totals include samples tested starting in that week.

USDA NAHLN began collating PEDv testing data on 16 June 2013. Weekly data prior to that date were provided by Iowa State University Diagnostic Laboratory. During the 2013 federal government shutdown, the University of Minnesota diagnostic collected and reported PEDv testing data (weeks of 22 September to 6 October 2013). Data from all sources are compiled in order to be as comprehensive as possible.

In general, a laboratory accession is a set of samples received at the laboratory where the samples were collected by a practitioner on a single premises on a single day. Therefore, each laboratory accession represents a single swine herd and each sample represents an individual animal tested for PEDvV on a given date. Because multiple swine within a herd are often simultaneously infected, analyses commonly use the laboratory accession as the epidemiological unit of interest.

Initially, some testing laboratories only provided data on PEDv-positive accessions and samples. Data on PEDv-negative accessions and samples became available from all laboratories starting November 2013. Therefore, summaries of the 'total number tested' (e.g. number of accessions tested or number of samples tested) were calculated for samples tested on or after 1 November 2013.

Age classes are defined as suckling (up to one month old or still on sow), nursery (one to three months), grower/finisher (three to eight months) and sow/boar (older than eight months).

This report does not currently include results of testing on feed samples.

This report only includes PCR testing data at this time, with addition testing types to be added to the report as information on the performance of new assays becomes available.

The format for this report is currently in transition as stakeholder feedback is incorporated.